

**Espacenet****Bibliographic data: EP 0349043 (A2)**

Arrangement for approximately determining the equivalent circuit of a circuit element at high frequencies.

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Abstract of EP 0349043 (A2)

The invention relates to an arrangement for approximately determining the equivalent circuit of an electrical or electronic component at high frequencies using a measuring device (4), to which the component constituting a two-gate element (59) or single-gate element (7) is connected via connecting elements (2; 57, 59, 60) and which measures the parameters of the dispersion matrix of the two-gate element over a preselected frequency range or the impedance or reflection factor of the single-gate element with the connecting elements; Connected to the measuring device (4) is an evaluation circuit (7) which corrects the measurement result by using two-gate parameters of the connecting element or elements determined before the measurement and which for a preselected equivalent circuit of the component calculates values of the equivalent circuit elements from the corrected measurement result by means of an optimisation strategy.